

## ABSTRACT

A testing method and apparatus for ground liquefaction and dynamic characteristics in the original position utilizing a boring hole, wherein the dynamic strength and deformation characteristics of a soil layer against a dynamic repetitive load, in an optional position in the ground can be obtained by a simple method. A measuring cell based on a three-chamber construction is used, and upper and lower soil layers (J1, J3) with an intermediate soil layer (J2) therebetween are alternately subjected to a dynamic repetitive load, and what influence there is on the intermediate soil layer (J2) is investigated from the relation between pressure and displacement.